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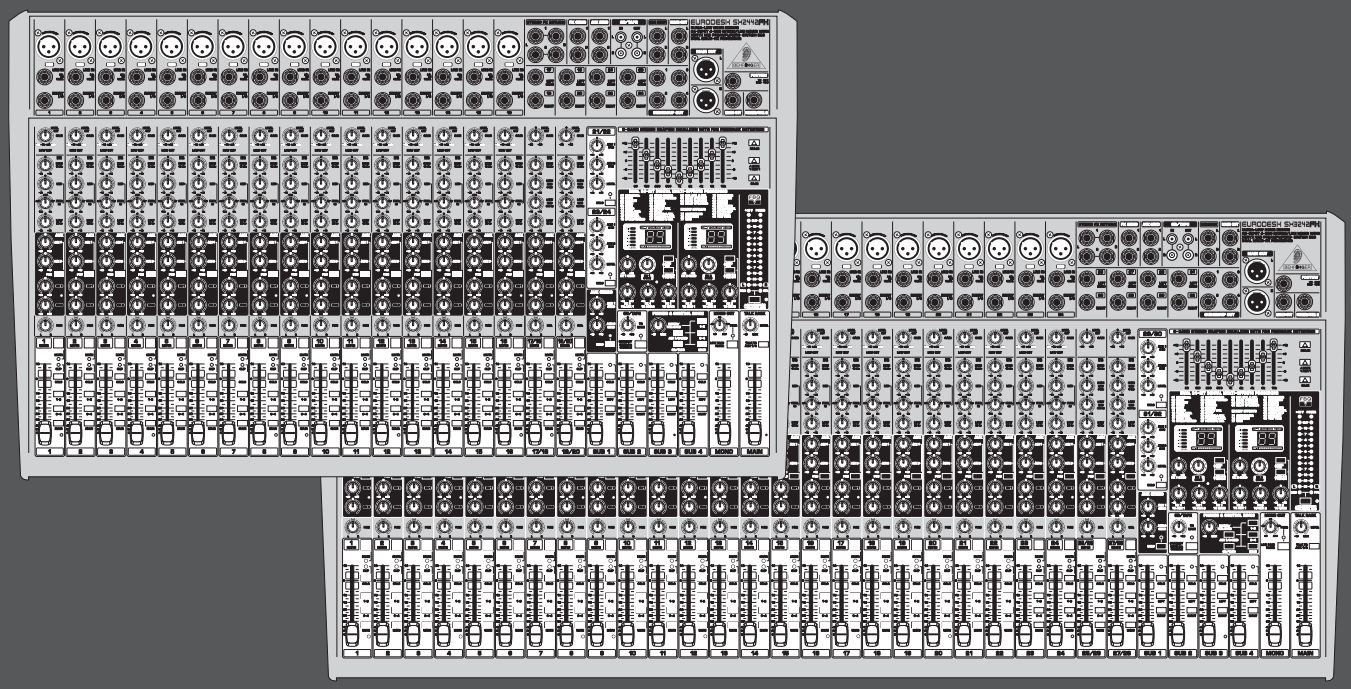

User Manual

EURODESK SX2442FX/SX3242FX

Ultra-Low Noise Design 24/32-Input 4-Bus Studio/Live Mixer with XENYX Mic Preamplifiers, British EQs and Dual Multi-FX Processor

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Thank you

Congratulations! With the EURODESK you have acquired a state-of-the-art mixing console that sets new standards. Right from the very start it has been our goal to design a revolutionary unit that can be used for a great variety of applications. And indeed, this overwhelming mixing console gives you plenty of functionality and a broad range of connection and expansion options.

BEHRINGER is a company with its roots in professional recording studio technology. For many years now we have been successful in developing products for studio and live use. These include microphones and studio gear of all kinds (compressors, enhancers, noise gates, tube processors, headphone amplifiers, digital effects, DI boxes, etc.), monitor and P.A. speakers as well as professional live and recording mixers. Our entire technical know-how has gone into your EURODESK mixing console.

EN Important Safety Instructions

Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock. Use only high-quality commercially-available speaker cables with ¼" TS plugs pre-installed. All other installation or modification should be performed only by qualified personnel.

This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.

This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.

Caution
To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.

Caution
To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Caution
These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.

2. Keep these instructions.

3. Heed all warnings.

4. Follow all instructions.

5. Do not use this apparatus near water.

6. Clean only with dry cloth.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Use only attachments/accessories specified by the manufacturer.

12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.

16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

Legal Disclaimer

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Trident Chambers, Wickhams Cay, P.O. Box 146,
Road Town, Tortola, British Virgin Islands

Limited Warranty

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§ 1 Warranty

1 This limited warranty is valid only if you purchased the product from a BEHRINGER authorized dealer in the country of purchase. A list of authorized dealers can be found on BEHRINGER's website behringer.com under "Where to Buy", or you can contact the BEHRINGER office closest to you.

2 MUSIC Group* warrants the mechanical and electronic components of this product to be free of defects in material and workmanship if used under normal operating conditions for a period of one (1) year from the original date of purchase (see the Limited Warranty terms in § 4 below), unless a longer minimum warranty period is mandated by applicable local laws. If the product shows any defects within the specified warranty period and that defect is not excluded under § 4, MUSIC Group shall, at its discretion, either replace or repair the product using suitable new or reconditioned product or parts. In case MUSIC Group decides to replace the entire product, this limited warranty shall apply to the replacement product for the remaining initial warranty period, i.e., one (1) year (or otherwise applicable minimum warranty period) from the date of purchase of the original product.

3 Upon validation of the warranty claim, the repaired or replacement product will be returned to the user freight prepaid by MUSIC Group.

4 Warranty claims other than those indicated above are expressly excluded.

PLEASE RETAIN YOUR SALES RECEIPT. IT IS YOUR PROOF OF PURCHASE COVERING YOUR LIMITED WARRANTY. THIS LIMITED WARRANTY IS VOID WITHOUT SUCH PROOF OF PURCHASE.

§ 2 Online registration

Please do remember to register your new BEHRINGER equipment right after your purchase at behringer.com under "Support" and kindly read the terms and conditions of our limited warranty carefully. Registering your purchase and equipment with us helps us process your repair claims quicker and more efficiently. Thank you for your cooperation!

§ 3 Return materials authorization

1 To obtain warranty service, please contact the retailer from whom the equipment was purchased. Should your BEHRINGER dealer not be located in your vicinity, you may contact the BEHRINGER distributor for your country listed under "Support" at behringer.com. If your country is not listed, please check if your problem can be dealt with by our "Online Support" which may also be found under "Support" at behringer.com. Alternatively, please submit an online warranty claim at behringer.com BEFORE returning the product. All inquiries must be accompanied by a description of the problem and the serial number of the product. After verifying the product's warranty eligibility with the original sales receipt, MUSIC Group will then issue a Return Materials Authorization ("RMA") number.

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2 Subsequently, the product must be returned in its original shipping carton, together with the return authorization number to the address indicated by MUSIC Group.

3 Shipments without freight prepaid will not be accepted.

§ 4 Warranty Exclusions

1 This limited warranty does not cover consumable parts including, but not limited to, fuses and batteries. Where applicable, MUSIC Group warrants the valves or meters contained in the product to be free from defects in material and workmanship for a period of ninety (90) days from date of purchase.

2 This limited warranty does not cover the product if it has been electronically or mechanically modified in any way. If the product needs to be modified or adapted in order to comply with applicable technical or safety standards on a national or local level, in any country which is not the country for which the product was originally developed and manufactured, this modification/adaptation shall not be considered a defect in materials or workmanship. This limited warranty does not cover any such modification/adaptation, regardless of whether it was carried out properly or not. Under the terms of this limited warranty, MUSIC Group shall not be held responsible for any cost resulting from such a modification/adaptation.

3 This limited warranty covers only the product hardware. It does not cover technical assistance for hardware or software usage and it does not cover any software products whether or not contained in the product. Any such software is provided "AS IS" unless expressly provided for in any enclosed software limited warranty.

4 This limited warranty is invalid if the factory-applied serial number has been altered or removed from the product.

5 Free inspections and maintenance/repair work are expressly excluded from this limited warranty, in particular, if caused by improper handling of the product by the user. This also applies to defects caused by normal wear and tear, in particular, of faders, crossfaders, potentiometers, keys/buttons, guitar strings, illuminants and similar parts.

6 Damage/defects caused by the following conditions are not covered by this limited warranty:

- improper handling, neglect or failure to operate the unit in compliance with the instructions given in BEHRINGER user or service manuals;
- connection or operation of the unit in any way that does not comply with the technical or safety regulations applicable in the country where the product is used;
- damage/defects caused by acts of God/Nature (accident, fire, flood, etc) or any other condition that is beyond the control of MUSIC Group.

7 Any repair or opening of the unit carried out by unauthorized personnel (user included) will void the limited warranty.

8 If an inspection of the product by MUSIC Group shows that the defect in question is not covered by the limited warranty, the inspection costs are payable by the customer.

9 Products which do not meet the terms of this limited warranty will be repaired exclusively at the buyer's expense. MUSIC Group or its authorized service center will inform the buyer of any such circumstance. If the buyer fails to submit a written repair order within 6 weeks after notification, MUSIC Group will return the unit C.O.D. with a separate invoice for freight and packing. Such costs will also be invoiced separately when the buyer has sent in a written repair order.

10 Authorized BEHRINGER dealers do not sell new products directly in online auctions. Purchases made through an online auction are on a "buyer beware" basis. Online auction confirmations or sales receipts are not accepted for warranty verification and MUSIC Group will not repair or replace any product purchased through an online auction.

§ 5 Warranty transferability

This limited warranty is extended exclusively to the original buyer (customer of authorized retail dealer) and is not transferable to anyone who may subsequently purchase this product. No other person (retail dealer, etc.) shall be entitled to give any warranty promise on behalf of MUSIC Group.

§ 6 Claim for damage

Subject only to the operation of mandatory applicable local laws, MUSIC Group shall have no liability to the buyer under this warranty for any consequential or indirect loss or damage of any kind. In no event shall the liability of MUSIC Group under this limited warranty exceed the invoiced value of the product.

§ 7 Limitation of liability

This limited warranty is the complete and exclusive warranty between you and MUSIC Group. It supersedes all other written or oral communications related to this product. MUSIC Group provides no other warranties for this product.

§ 8 Other warranty rights and national law

1 This limited warranty does not exclude or limit the buyer's statutory rights as a consumer in any way.

2 The limited warranty regulations mentioned herein are applicable unless they constitute an infringement of applicable mandatory local laws.

3 This warranty does not detract from the seller's obligations in regard to any lack of conformity of the product and any hidden defect.

§ 9 Amendment

Warranty service conditions are subject to change without notice. For the latest warranty terms and conditions and additional information regarding MUSIC Group's limited warranty, please see complete details online at behringer.com.

* MUSIC Group Macao Commercial Offshore Limited of Rue de Pequim No. 202-A, Macau Finance Centre 9/J, Macau, including all MUSIC Group companies

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1. Introduction

FBQ Feedback Detection System

One of the most outstanding features of this console is the FBQ Feedback Detection System, which is part of the graphic equalizer. This ingenious circuit makes it possible to detect and subsequently eliminate feedback frequencies very quickly. FBQ increases the brightness of the EQ fader LEDs for the frequency bands where feedback is occurring. What used to be a tedious search for feedback frequencies is now mere child's play.

XENYX Mic Preamps

The microphone channels feature high-end XENYX Mic Preamps that compare well with costly outboard preamps in terms of sound quality and dynamics and boast the following features:

- 130 dB dynamic range for an incredible amount of headroom
- A bandwidth ranging from below 10 Hz to over 200 kHz for crystal-clear reproduction of even the finest nuances
- The extremely low-noise and distortion-free circuitry guarantees absolutely natural and transparent signal reproduction
- They are perfectly matched to every conceivable microphone with up to 60 dB gain and +48 volt phantom power supply
- They enable you to use the greatly extended dynamic range of your 24-bit/192-kHz HD recorder to the full, thereby maintaining optimal audio quality

"British EQ"

The equalizers used for the XENYX Series are based on the legendary circuitry of top-notch consoles made in Britain, which are renowned throughout the world for their incredibly warm and musical sound character. Even with extreme gain settings these equalizers ensure outstanding audio properties.

What is more, the EURODESK comes with two effects processors using 24-bit A/D and D/A converters and the effects algorithms of our renowned 19" multi-effects device VIRTUALIZER PRO DSP2024P. Each processor offers 99 presets with first-class room simulations, delay and modulation effects as well as compressor, tube distortion and numerous other effects available—all with excellent audio quality!

The mixer is equipped with a state-of-the-art integrated switch-mode power supply. Unlike conventional designs, this supply automatically adapts to supply voltages between 100 and 240 V. With its considerably higher efficiency, it is also more economical in terms of power consumption than standard power supply units.

1.1 Before you get started

1.1.1 Shipment

Your product was carefully packed at the factory to ensure safe transport. Nevertheless, if the box is damaged inspect the unit immediately for signs of damage.

- ◊ **If the unit is damaged please do NOT return it to us, but notify your dealer and the shipping company immediately; otherwise, claims for damage or replacement may not be granted.**
- ◊ **We recommend that you use a flight case to give the unit optimum protection during use or transport.**
- ◊ **Always use the original box to prevent damage during storage or transport.**
- ◊ **Make sure that children cannot play unsupervised with the unit or its packaging.**
- ◊ **Please ensure proper disposal of all packing materials.**

1.1.2 Initial operation

Ensure adequate air supply and to avoid overheating do not place the unit near radiators etc.

- ◊ **Blown fuses must be replaced by fuses of the correct rating! Please refer to the "Specifications" section for the applicable rating.**

For connection to the mains use the enclosed power cord with cold connector which complies with the relevant safety regulations.

- ◊ **Please make sure that all devices are properly grounded. For your own safety, never remove or disable the ground conductors from the devices or on the power cords. The unit must always be connected to the mains outlet with a protective grounding connection.**
- ◊ **We would like to point out that high volume levels may damage your hearing and/or your headphones/loudspeakers. To avoid switch-on/off thumps from the console and any downstream devices, always make sure that your power amp(s) or active speakers are the last components that are switched on and the first to be switched off. Always make sure that the appropriate volume is set.**

Important notes concerning installation

- ◊ **The sound quality may diminish within the range of powerful broadcasting stations and high-frequency sources. Increase the distance between the transmitter and the device and use shielded cables for all connections.**

1.1.3 Online registration

Please register your new BEHRINGER equipment right after your purchase by visiting http://behringer.com and read the terms and conditions of our warranty carefully.

Should your BEHRINGER product malfunction, it is our intention to have it repaired as quickly as possible. To arrange for warranty service, please contact the BEHRINGER retailer from whom the equipment was purchased. Should your BEHRINGER dealer not be located in your vicinity, you may directly contact one of our subsidiaries. Corresponding contact information is included in the original equipment packaging (Global Contact Information/European Contact Information). Should your country not be listed, please contact the distributor nearest you. A list of distributors can be found in the support area of our website (http://behringer.com).

Registering your purchase and equipment with us helps us process your repair claims more quickly and efficiently.

Thank you for your cooperation!

1.2 The manual

This manual is designed to give you an overview of all control elements and at the same time inform you in detail about how to use them. To provide you with a clear structure, we have grouped the control elements according to their function. They can easily be found on the enclosed numbered illustrations. If you need more detailed information on specific topics, please visit our web site at behringer.com. The product-related information pages and the ULTRANET-based glossary explain the relevant audio engineering terminology in full detail.

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2. Control Elements and Connections

This chapter describes the various control elements of your mixing console. All controls and connections are explained in full detail.

2.1 Mono input channels

2.1.1 Microphone and line inputs

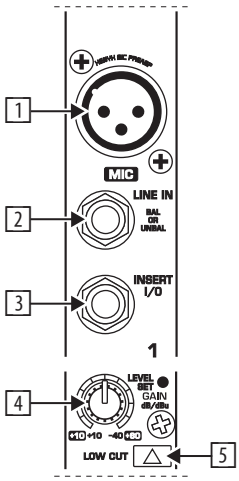

Fig. 2.1: Connectors and controls of the mic/line inputs

1 Each mono input channel is equipped with a balanced microphone input on an XLR connector, which provides +48 V phantom power for condenser microphones at the touch of a button (see rear panel).

◊ **Be sure to switch off your audio system before you activate the phantom power supply to prevent audible switch-on thumps from reaching your monitor speakers. Please also note the information given in chapter 2.11 "Rear panel".**

2 Each mono input also has a balanced line input on ¼" TRS connectors. Of course, these inputs can also be used with unbalanced plugs (¼" TS connector).

3 The **INSERT I/O** connector is used to process a signal with dynamic processors or equalizers. This insert point isprefader, pre-EQ and pre-aux send.

Unlike reverb and other effects, which are usually added to the dry signal, dynamic processors process the entire signal. So, aux send buses are not the best solution here. Instead, dynamic processors and equalizers are inserted into the signal path. Once processed, the signal then re-enters the mixing console at the same point where it left. Signal interruption only occurs if a plug is inserted into the corresponding jack (¼" stereo plug: tip = signal output, ring = input). All mono input channels are equipped with insert points. They can also be used as pre-EQ direct outputs, without signal flow interruption. For this you need a cable with a ¼" TS connector on the recorder/effects processor end, and a bridged stereo ¼" TRS connector on the console end (tip and ring interconnected).

4 The **GAIN** control adjusts the input gain. Be sure to set this control fully counter-clockwise before you connect or disconnect a signal source to or from one of the inputs.

GAIN has a dual scale: the first scale has a gain from **+10** to **+60** dB for the MIC input.

The second scale has a gain from **+10** to **-40 dBu** for the line input. For devices with a nomal line output level of-10 dBV or +4 dBu the setting is as follows: with GAIN fully counter-clockwise connect the external device and adjust the output level recommended by the manufacturer. If available, the output level display of the external device should read 0 dB with signal peaks. For +4 dBu increase GAIN, for -10 dBV increase it further. The fine-tuning can be done with a music signal and the **LEVEL SET** LED, which will illuminate when the optimum operating level has been set.

5 Mono channels are equipped with a high-slope **LOW CUT** filter eliminating unwanted low-frequency signals, such as floor rumble (18 dB/oct., -3 dB at 80 Hz).

2.1.2 Equalizer

All mono input channels are equipped with a 3-band equalizer. The maximum boost/cut of the individual bands is 15 dB, in mid position the EQ is set to neutral.

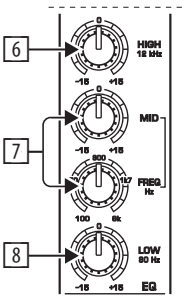

Fig. 2.2: Equalizer section of input channels

6 The **HIGH** control in the EQ section controls the high frequency range of the respective channel. It is a shelving-type filter which can boost or cut all frequencies above a fixed frequency (12 kHz).

7 The **MID** control allows you to raise or lower the mid-range level. It is a semi-parametric peak filter, which boosts or cuts the frequency range around a variable mid-range frequency. Use the **FREQ** control to select the mid-range frequency from 100 Hz to 8 kHz. Then use the MID control to boost or cut the selected frequency range.

8 The **LOW** control boosts or cuts the low-frequency range. Like the HIGH filter it is a shelving-type filter, which raises or lowers the level of all frequencies below a specific frequency (80 Hz).

2.1.3 Aux/FX send buses

Aux sends enable you to take the signals from one or multiple channels and collect them on one bus. This signal is then present at one of the aux send jacks, from where it can be routed to an active monitor speaker or external effects device, for example. The FX returns are subsequently used as a return bus for the processed signal.

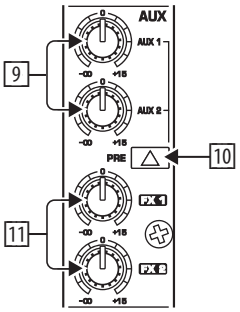

Fig. 2.3: AUX/FX send controls in the channel strips

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9 On each channel, the **AUX 1** and **AUX 2** controls allow you to determine the level of the aux signals sent from the channel. The main aux send signal comprising the aux send signals from all channels can then be adjusted with the corresponding master AUX SEND controls 51, and is present at the AUX SEND outputs 52. Both aux sends are mono, post-EQ, with a gain of up to +15 dB.

10 Press the **PRE** switch to set all aux sends to pre-fader. In this case, the volume of the aux signals is no longer dependent on the fader position, so you can create completely independent monitor mixes.

◊ **For most applications when controlling an external effects device from one of the aux buses, the aux sends must be set post-fader, so that the effect volume in a channel depends on the position of the channel fader. Otherwise, the effect signal would still be audible, even if the channel was turned down completely. For this type of application it is advisable to leave the PRE switch out (= not pressed).**

11 **FX 1** and **FX 2** controls provide a direct route to the built-in effects processor. Additionally, they can be used to control an external effects unit, via the FX SEND 1 and 2 outputs (similar to the AUX SEND 1 and 2 jacks). To ensure that the internal effects processor and the FX SEND outputs actually get a signal, the corresponding FX control must not be set fully counter-clockwise (-oo), and the master FX SEND (see 60) must be turned up. The FX buses are hard wired post-fader.

◊ **Please also read chapter 2.10 "Effects section" and 3 "Digital effects processor".**

2.1.4 Mono channel fader and further control elements

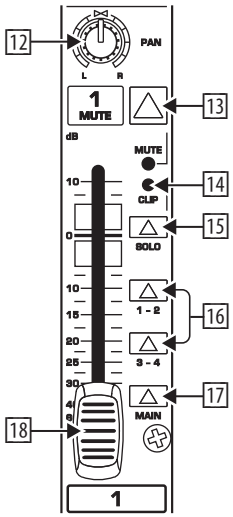

Fig. 2.4: Channel fader, pan control, mute button, etc.

12 The **PAN** control determines the position of the channel signal in the stereo mix as well as the subgroup to which the channel signal is routed (see chapter 2.4).

13 Use the **MUTE** switch to mute the channel signal, so it is no longer part of the main mix. At the same time, all aux buses set to post-fader are muted for the respective channel, while the pre-fader monitor buses remain operative. The **MUTE** LED is illuminated when the channel is muted.

14 The **CLIP LED** illuminates when the channel overloads. In this case, please reduce the input gain using the GAIN control. This LED also illuminates when you activate the solo function with the **SOLO** switch below.

15 The **SOLO** switch routes the channel signal to the solo bus (Solo In Place) or the PFL bus (Pre Fader Listen). Thus, you can monitor a channel signal without affecting the main output signal. The signal to be monitored is taken either pre (PFL, mono) or post-panorama control (Solo, stereo) and post-channel fader (depending on the position of the SOLO/PFL switch 40).

16 The **SUB** switch routes the signal to the respective subgroups. Your EURODESK features 4 subgroups (1-2 and 3-4). With the PAN control on the input channel (see 12) you can determine to which of the two groups the signal is routed (hard left: sub 1 or 3, hard right: sub 2 or 4).

17 The **MAIN** switch routes the signal to the main mix.

18 The channel fader governs the level of the channel signal as part of the main mix (or submix).

2.2 Stereo channels

2.2.1 Channel inputs

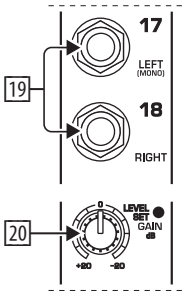

Fig. 2.5: Stereo channel inputs

19 Each stereo channel is equipped with two balanced line-level inputs on ¼" TRS connectors for the left and right channels. The channels can also process mono signal, as long as you use the "LEFT" jack only.

20 All stereo channel strips have a **GAIN** control for gain adjustment. Its scale ranges from +20 to -20 dB and allows you to adapt the input level to the line inputs.

2.2.2 Stereo channel equalizer

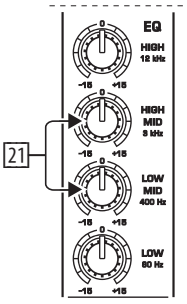

Fig. 2.6: Stereo channel equalizer

The stereo channels are equipped with a stereo equalizer. The filter types and cutoff frequencies for HIGH and LOW filters are the same as on the mono channels. Instead of one semi-paramtric midrange band, the stereo channels have two separate midrange bands 21 (HIGH MID and LOW MID) with fixed mid-frequencies (3 kHz and 400 Hz). Stereo EQs are preferable for processing the frequency response of stereo signals. With two mono equalizers you might encounter problems with different settings between the left and right channels.

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2.2.3 Stereo channel aux/FX send buses

Basically, the aux and FX buses on the stereo channels are the same as on the mono channels. Since aux buses are always mono, the signal from a stereo channel is first mixed to mono before it is routed to the aux bus.

2.2.4 Stereo channel fader and other control elements

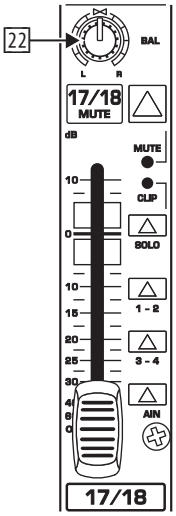

Fig. 2.7: Channel fader, balance control, mute switch, etc.

22 The **BAL**(ANCE) control has the same function as the PAN control on the mono channels. It determines the relative volume of the left and right input signals before they are routed to the stereo main mix bus (or to two subgroups).

All other control elements of the stereo channels work in the same ways as their counterparts on the mono channels (faders, MUTE switches, etc.).

◊ **Please note: When you route a stereo channel to the subgroups using the SUB switches, please be sure to set the BAL control to its mid position, so that the signal is sent to two subgroups and remains stereo.**

2.3 Stereo channels 21-24 (SX2442FX) or 29-32 (SX3242FX)

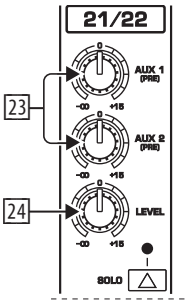

Fig. 2.8: Auxiliary stereo channels

Your EURODESK has two stereo channels with an aux send section 23 (AUX 1 and AUX 2) and one LEVEL control. 24 For these channels, the aux buses are hard-wired to pre-fader and are therefore particularly useful for monitoring. They have no routing switches and are always sent to the main mix. Like the normal stereo channels they have two line-level inputs on ¼" TRS connectors for the left and right channels, and a SOLO switch.

Similar to the CD/TAPE inputs (see 49) the auxiliary stereo channels can be connected to CD players, tape decks, etc., for example, to feed in playback material.

2.4 Subgroups 1 - 4

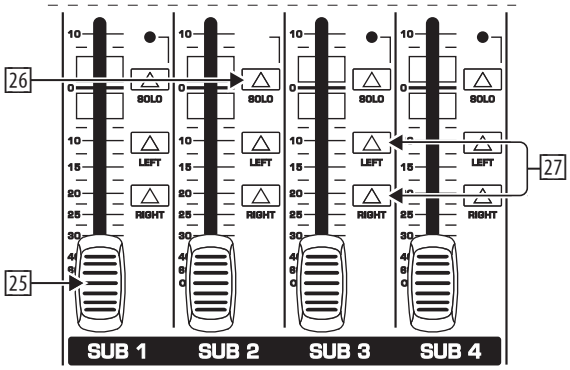

Fig. 2.9: Subgroups 1 - 4

The EURODESK has 4 subgroups enabling you to create mono or stereo mixes from multiple input signals. Subgroups are controlled from one (mono) or two (stereo) subgroup faders. Additionally, it is possible to connect the subgroup outputs as tape sends to a multi-track recorder.

25 The subgroup faders determine the volume of the subgroup signal at the subgroup output 28. Depending on the position of the routing switch 27 you can thus control the subgroup volume in the main mix.

26 The **SOLO** switch routes the subgroup signal to the solo bus (Solo In Place) or PFL bus (Pre Fader Listen), so that you can monitor the subgroup signal without affecting the main or sub output signals. The signal to be monitored is taken either pre (PFL, mono) or post-subgroup fader (Solo, stereo), depending on the position of theSOLO/PFL switch 40). The SOLO LED illuminates when the SOLO switch is pressed.

27 Use the routing switches for the subgroups to send the subgroup signal to the main mix. You can route it to the left stereo side (=LEFT pressed), to the right stereo side (=RIGHT pressed) or to both (=LEFT and RIGHT pressed). For example, when you have created a stereo submix using subgroups 1 and 2, be sure to route group 1 to the left and group 2 to the right side to maintain proper stereo positioning. If it is a mono submix with just one subgroup, route it to the left and right sides of the main mix to make the signal audible on both sides.

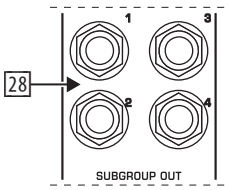

Fig. 2.10: Subgroup outputs 1 - 4

28 These four **SUBGROUP OUT** (puts) carry the signals of the individual subgroups. For multi-tracking connect the outputs to the inputs of a multi-track recorder (see chapter 4.1 “Studio set-up”).

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2.5 Mono out section for subwoofer applications

Using this auxiliary mono output you can route the main mix signal to a separate power amp. The tunable low-pass filter allows you to limit the signal content to the low-frequency range to get a perfect subwoofer signal. This signal is mono because very low frequencies disperse quickly, so there would be no benefit to position this signal in the stereo mix.

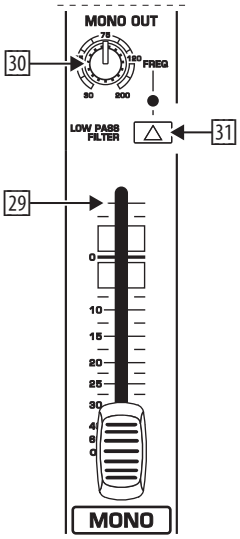

Fig. 2.11: Mono out fader and low-pass filter

29 The **MONO** fader controls the volume of the signal present at the MONO OUT (see 32).

30 The **FREQ** control adjusts the cut-off frequency of the low-pass filter (30 to 200 Hz). Frequencies above cut-off are filtered out when activated.

31 Use the **LOW PASS FILTER** switch to activate the filter function (LED illuminates).

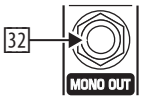

fig. 2.12: Mono out connector

32 The **MONO OUT** connector provides the line-level mono signal for connection to the inputs of a power amp or active speaker. You can also use this output as a monitor bus, e.g. to connect a headphone amplifier. In this case, the signal should of course not be limited by the low-pass filter.

2.6 Main out section

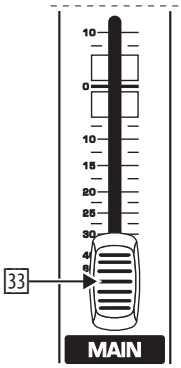

Fig. 2.13: Main out fader

33 Use this high-precision **MAIN** fader to control the output level of the main mix.

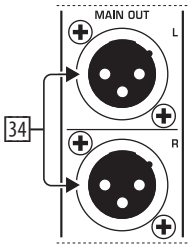

Fig. 2.14: XLR main out connectors

34 The **MAIN OUT**(puts) are balanced XLR connectors with a nominal operating level of +4 dBu and provide the main mix signal.

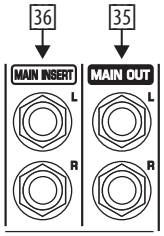

Fig. 2.15: Main out connectors and main insert

35 The **MAIN OUT** ¼" TRS connectors outputs also provide the main mix signal.

36 Like the channel inserts, the **MAIN INSERT** connectors can be used to connect a dynamics processor or equalizer for further processing of the mix signal. The MAIN INSERT refers to the Main Outs (XLR and ¼" TRS connectors), the MONO OUT (see 32) and, if the MAIN switch in the PHONES/CONTROL ROOM section is pressed, also to the PHONES/CTRL ROOM output (see 46).

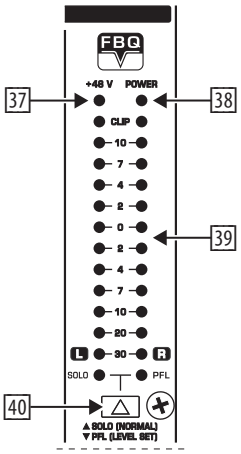

Fig. 2.16: Level meter

37 The red "**+48 V**" LED illuminates when phantom power is on. Phantom power is required for the operation of condenser microphones, and can be switched on with the corresponding switch on the rear of the console.

38 The **POWER** LED is illuminated when the console is switched on.

39 The high-precision level meter accurately indicates the output signal level. For example, when you press the SOLO switch on one of the input channels, its signal level will be displayed here, either pre-fader (PFL) or post-fader (SOLO), depending on the position of the SOLO/PFL switch (see 40). In PFL mode only the left display is active, because the PFL signals are mono.

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40 The **SOLO/PFL** switch determines whether the monitored signal is pre (PFL) or post-fader (SOLO) after pressing the SOLO/PFL switch (the LED illuminates). The level meter indicates the corresponding signal (see 39). When you adjust a signal with the GAIN control, it is advisable to select PFL mode, so that the level shown is independent of the channel fader position.

2.6.1 Talkback

The talkback function of the EURODESK allows you to communicate with the musicians in the recording room or on the stage. The talkback signal is present at the AUX SEND outputs, which are particularly useful for monitor/ headphone mixes.

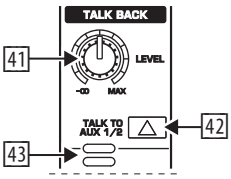

Fig. 2.17: Talkback section

41 The **LEVEL** control determines the volume of the talkback signal at the AUX 1/2 outputs.

42 Use the **TALK TO AUX 1/2** switch to activate the built-in talkback microphone. Its signal is sent to the AUX SEND jacks 1 and 2. Keep the switch pressed while you're speaking.

43 This is the built-in talkback microphone.

2.6.2 Phones & control room

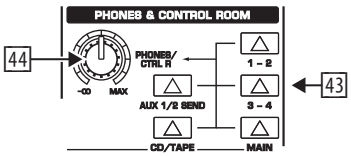

Fig. 2.18: Phones/control room section

44 The **PHONES/CTRL R** control adjusts the volume of the headphones connected to the PHONES/CTRL ROOM OUT jack (see 46). If you have an active monitor speaker or power amp connected here, you can also control the monitor volume.

45 These switches select the signal sent to the PHONES/CTRL ROOM jack. Available sources are: MAIN, CD/TAPE, AUX 1/2 and subgroups 1 - 2 and 3 - 4.

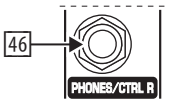

Fig. 2.19: Phones/control room output

46 Connect your headphones or monitor speaker to the PHONES/CTRL ROOM OUT ¼" TRS connector.

◊ **IMPORTANT! High volume levels may damage your hearing and/or your headphones/loudspeakers. To avoid switch-on/off thumps from the console and any downstream devices, always make sure that the power amp(s) or active speaker(s) are the last components that are switched on and the first to be switched off. Always make sure that the appropriate volume is set.**

2.7 CD/Tape

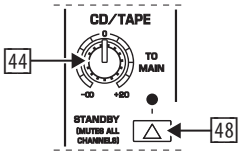

Fig. 2.20: CD/tape

47 **TO MAIN** controls the volume of, for example, a CD player connected to the CD/tape input connectors (see 49).

48 When the **STANDBY** switch is pressed, all input channels are muted. Only the CD/tape signal will be routed to the main mix. In this way, you can prevent the microphones from pickung up unwanted sounds or noise that would interfere with CD playback during a break. The main mix and channel faders can remain in their normal positions while playing back music from CD (using the CD/TAPE INPUTs 49), so you don't lose your mix.

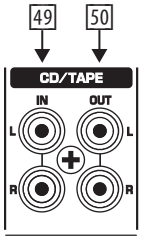

Fig. 2.21: CD/tape connectors

49 The **CD/TAPE INPUT RCA** connectors are for the connection of CD players, tape decks or other line-level sources. The signal volume is adjusted with the TO MAIN control.

50 The **CD/TAPE OUTPUT RCA** connectors provide the stereo main mix signal to a tape deck or DAT recorder to record your mix. The signal is taken pre-fader, so that it will not be influenced by the fader positions.

2.8 Master Aux Send 1 and 2

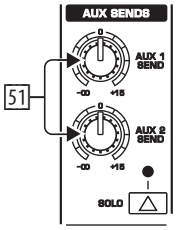

Fig. 2.22: Master aux sends

51 These are the master **AUX SEND** controls 1 and 2 for adjusting the volume level sent to the corresponding aux send connectors (see 52). This way, you can control the mix of all AUX 1 or AUX 2 signals of the input channels. The AUX SEND section also has a SOLO switch.

Fig. 2.23: Master aux send outputs

52 Use the **AUX SEND** outputs 1 and 2 to take the master AUX SEND signals and route them to an external effects device or your monitor speakers. Subsequently, you can return the effect signal, e.g. via the STEREO FX RETURN inputs (see 67) or specific input channels.

2.9 Graphic 9-band stereo equalizer

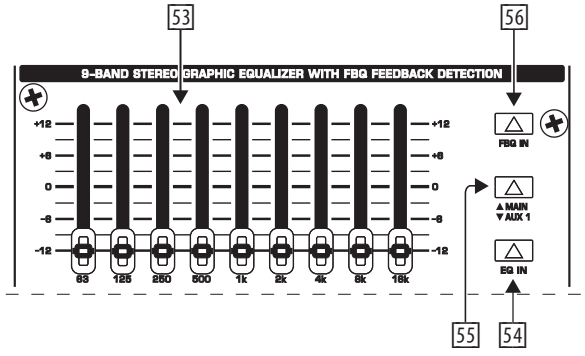

Fig. 2.24: The graphic stereo equalizer

53 Your EURODESK is equipped with a graphic 9-band stereo equalizer processing either the main or the AUX 1 signal. Use the EQ to adapt the sound to the room acoustics.

54 Use the **EQ IN** switch to switch the equalizer on. In this case, the fader LEDs illuminate.

55 With the **MAIN/AUX 1** switch you can determine the signal to be processed, either main or AUX 1.

56 Press the **FBQ IN** switch to activate the FBQ Feedback Detection System. The frequencies causing feedback are indicated by the brightly lit fader LEDs, while all other LEDs are darker. Simply lower the level of the brightly lit faders until feedback disappears.

◊ **When the switch is in the "AUX 1" position (see 55), the EQ fader LEDs show both the MAIN and the AUX 1 signal simultaneously. However, if feedback occurs in one of the signals, those signals without feedback will be faded out to enable clear identification of where feedback is occurring. If the MAIN signal happens to be the one carrying feedback, put the switch 55 to "MAIN" and then use the 9-band EQ to remove the feedback.**

2.10 Effects section

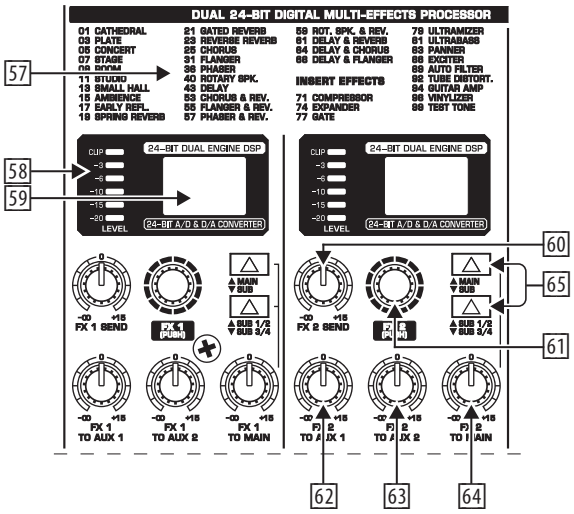

Fig. 2.25: The digital effects processor

57 Here you will find a list of all multi-effects presets (see also chapter 3 "Digital effects processor").

58 The FX LED level meters show the effects processor's input signal. Be sure that the clip LED only illuminates with signal peaks. If it is lit all the time, the effects processor is overloading and hence producing unpleasant distortion.

59 The **Effect** displays show the currently selected presets.

60 This is the master **FX 1** (or 2) SEND control for adjusting the volume of all FX send signals at the corresponding FX send jacks (see 66) and at the inputs of the built-in effects processor. Use it to control the master signal of all FX 1/FX 2 signals from the input channels. When neither of the FX SEND controls is turned up, the effects processor will not receive a signal.

61 Turn the **FX 1** (or **FX 2**) control to select an effects preset. Then, push it briefly to confirm your selection and activate the new effect.

62 The **FX 1** (or 2) TO **AUX 1** controls allow you to add the effect signal from the built-in effects processor (FX1 or FX2) to the AUX 1 monitor signal. Naturally, the effects processor must be provided with an input signal (i.e. the FX controls in the channel strips plus the FX SEND controls and the channel faders must be turned up).

63 This is the **FX 1** (or 2) TO **AUX 2** control adding the effect signal from the effects processor to the AUX 2 monitor signal. See 62 for further details.

64 The **FX 1** (or 2) **TO MAIN** control routes the effect signal either to the main mix or the subgroups 1 and 2 (or 3 and 4), depending on the position of the selector switch (see 65). When it is hard left, no effect signal will be audible. Here, too, the FX controls in the channel strips plus the FX SEND controls and the channel faders must be turned up.

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65 These selector switches route the effect signal to the main mix or to the subgroups 1-2 or 3-4. If the **MAIN/SUB** switch is not pressed, the effect signal is sent to the main mix and the **SUB 1/2 / SUB 3/4** switch below is inoperative. If the upper switch is pressed (SUB), however, the lower switch determines whether the effect signal is routed to subgroups 1 and 2 (SUB 1/2) or 3 and 4 (SUB 3/4).

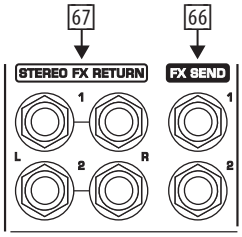

Fig. 2.26: FX send and return connectors

66 The **FX SEND 1** and **2** connectors also provide the master FX send signals, for example, to connect them to the inputs of an external effects device. However, these are "dry" signals only with no "effect signals" from the built-in effects processor!

67 The Stereo **FX RETURN** inputs 1 and 2 return the effect signals from external effects processors and add them to the main mix.

Fig. 2.27: Footswitch connectors

68 The **FOOTSW**(ITCH) connector allows you to connect a standard dual footswitch to separately enable/disable FX 1 or FX 2. The tip of the ¼" plug controls FX 1, the ring controls FX 2.

2.11 Rear panel

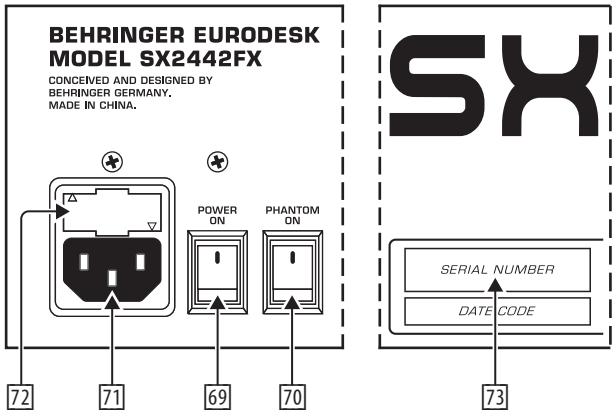

Fig. 2.28: The rear panel of the EURODESK

69 Use the **POWER** switch to put the mixer into operation. This switch should always be in the "Off" position when you connect your unit to the mains.

◊ **Please note: The POWER switch does not fully disconnect the unit from the mains. To disconnect the unit from the mains, pull out the main cord plug or appliance coupler. When installing the product, ensure the plug or appliance coupler is readily operable. Unplug the power cord when the unit is not used for prolonged periods of time.**

70 With the **PHANTOM** switch you can activate the phantom power supply for the XLR connectors of the mono channels for condenser microphones. The +48 V-LED 37 illuminates when phantom power is on. In most cases, dynamic microphones can still be used as long as they are connected in a balanced configuration. If in doubt, please contact the manufacturer of your microphone!

71 The mains connection is a standard IEC receptacle. An appropriate power cord is supplied with the unit.

72 **FUSE HOLDER**. Before connecting the unit to the mains, ensure that the voltage setting matches your local voltage. Blown fuses should only be replaced by fuses of the same type and rating. Please also read the information given in chapter 6 "Specifications".

73 **SERIAL NUMBER**.

3. Digital Effects Processor

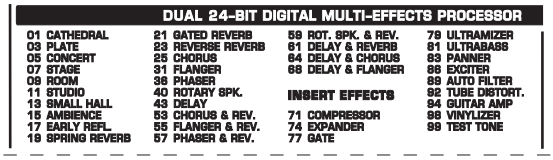

Fig. 3.1: List of all effects presets

99 FIRST-CLASS PRESETS

Here is the list of all multi-effects presets. The built-in effects processor offers you various standard effects such as reverb, chorus, flanger, delay and a variety of combination effects from our renowned studio effects processor VIRTUALIZER PRO DSP2024P. Use the FX control on the channels and the FX SEND control to supply the effects processor with signals. A built-in digital stereo effects processor has the benefit of no external wiring, thus reducing the risk of ground loops or level differences. Handling is therefore much easier.

PARALLEL FX

The effects presets 1 to 70 provide classic "add-to-mix" effects. So, when you turn up the FX 1 (or 2) TO MAIN control, you create a mix of the (dry) channel signal and the effect signal. The balance between the two signals can be set with the FX send and FX 1/2 TO MAIN controls.

This also applies to adding effect signals to the AUX 1 (or 2) monitor mix, with the exception that the mix here is adjusted with the AUX 1 (or 2) control in the channel strip and the FX TO AUX 1 (or 2) potentiometer. Of course, the effects processor must receive a signal from the channel using the FX 1 (or 2) control. Make sure that the PRE switch in the corresponding channel strip(s) is pressed. Otherwise, the AUX buses will be set post-fader making the volume of the AUX monitor signal dependent on the position of the channel fader(s).

INSERT FX (channel is muted)

Effects presets #71 and higher process the entire signal, unlike the "add-to-mix" effects. When you use an insert preset, be sure to separate the respective channel from all buses (SUB button and MAIN button not pressed) and only route the effect signal to the main mix (FX 1/2 control, FX SEND 1/2 control and FX TO MAIN 1/2 control).

◊ **The channel fader of the corresponding channel remains active and governs (in combination with the FX controls) the signal level sent to the built-in effects processors.**

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4. Wiring Examples

4.1 Studio set-up

The following wiring example shows a studio set-up for 4-track-recording: the drums are mixed down to two subgroups and then routed via the subgroup outputs to two tracks of the multi-track recorder. The remaining two subgroups are used to record the guitar, keyboard (stereo channel) and two vocal signals on the remaining two tracks. The four return paths from the recorder are connected to four separate mono input channels on the EURODESK. The built-in compressor is used only for the bass, which is why this input channel is separate from all buses (SUB and MAIN switch not pressed). The bass signal is directly routed from the built-in effects processor to the respective subgroups (FX TO MAIN control). The MAIN/SUB switch in the FX1 section is pressed, but NOT the SUB 1/2 SUB 3/4 button.

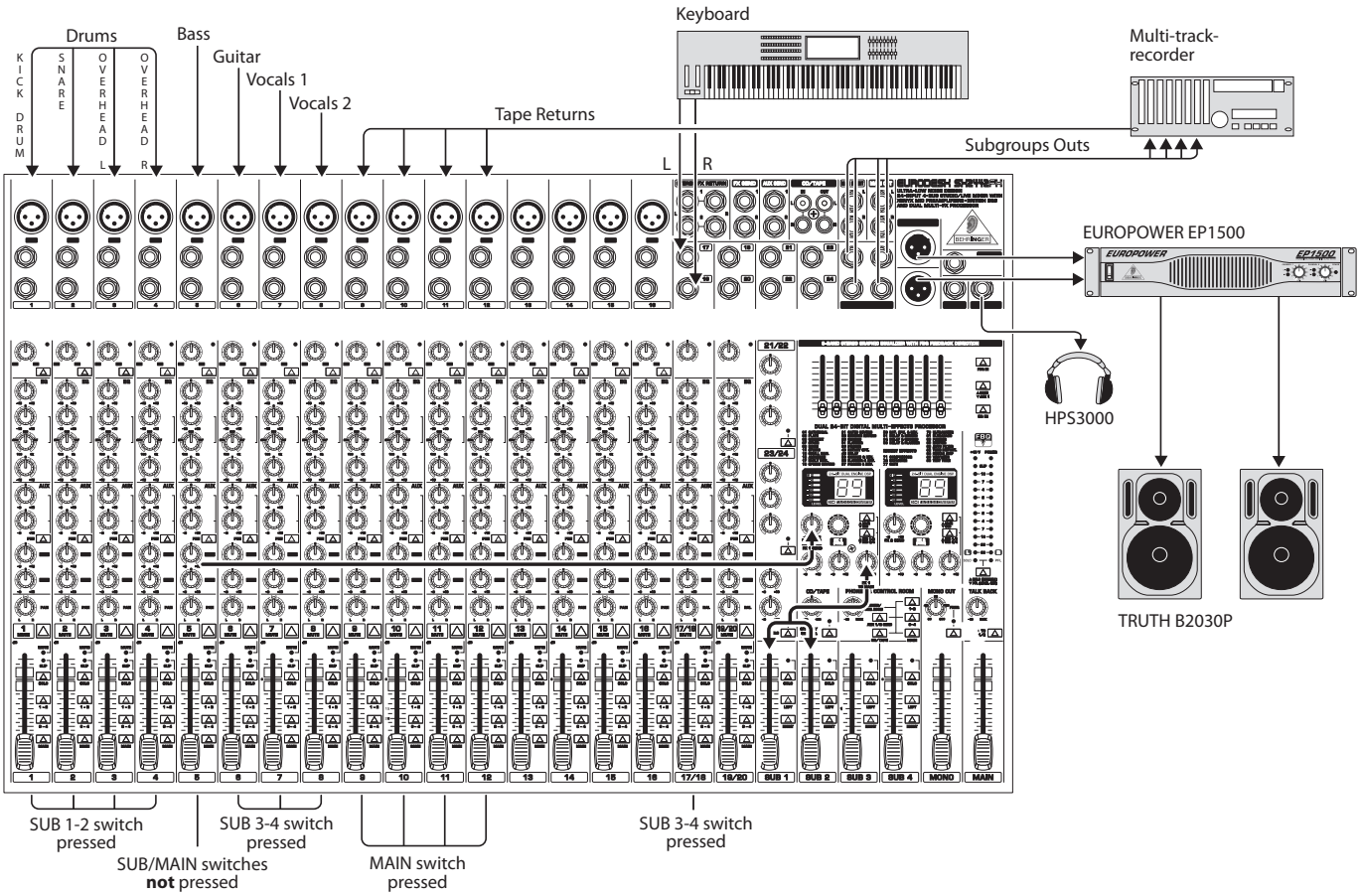

Fig. 4.1: Wiring the console for studio operation

◊ **Please make sure that none of the subgroup routing switches (1-2 and 3-4) is pressed in the channels connected to the recorder returns. Otherwise, a feedback loop will be created as soon as you start recording. Only press the MAIN switch on these input channels, so that the tape return signals are routed to the main outs and Phones/CTRL room outputs of the console.**

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4.2 Live set-up

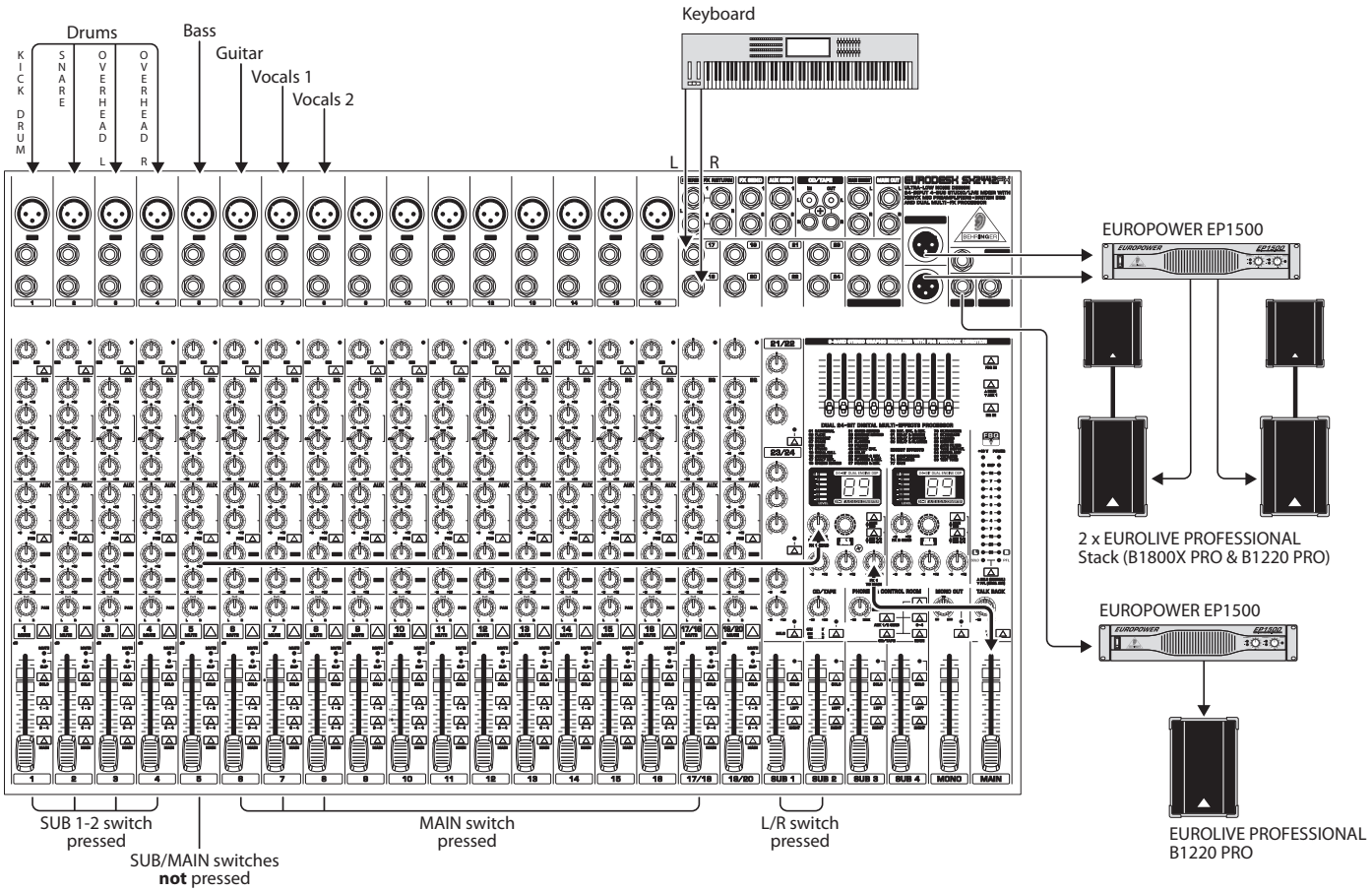

Fig. 4.2: Wiring the console for live operation

This example shows a classic live set-up. As in the studio example, four drum microphones, bass, keyboard (stereo channel), guitar and two vocal microphones are connected. The four drum channels (kick drum, snare, overhead L, overhead R) are mixed down to two subgroups and then routed to the main mix. This way, it is possible to conveniently control the volume of the entire drums in the main mix with the two subgroup faders. The built-in compressor insert effect is used for the bass. The corresponding input channel is separate from all buses and the bass signal is routed directly from the internal effects processor to the main mix bus. The MAIN/SUB switch must not be pressed in this case and the position of the SUB 1/2 SUB 3/4 switch is irrelevant.

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5. Audio Connectors

The inputs and outputs of the BEHRINGER EURODESK are designed as unbalanced ¼" TS connectors—except for the balanced line inputs of the mono and stereo channels and the main out connectors. Of course, all inputs and outputs work with both balanced and unbalanced connectors. The tape ins and outs are stereo RCA connectors.

◊ **Please ensure that only qualified personnel install and operate the EURODESK. During installation and operation, the user must have sufficient electrical contact to earth. Electrostatic charges might affect the operation of the unit.**

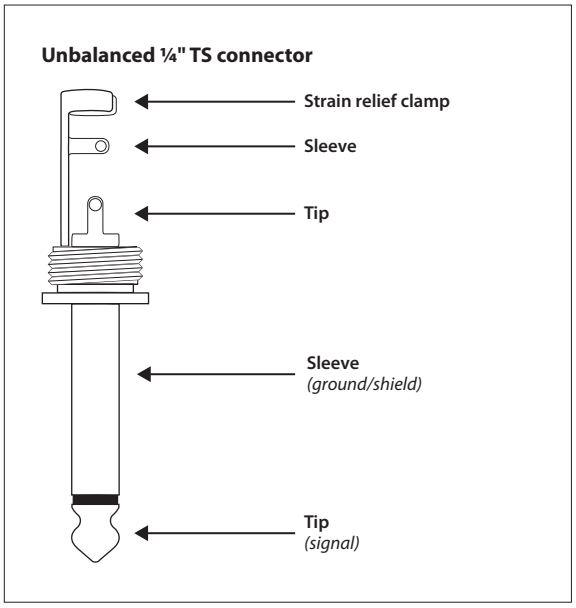

Fig. 5.1: ¼" TS connector

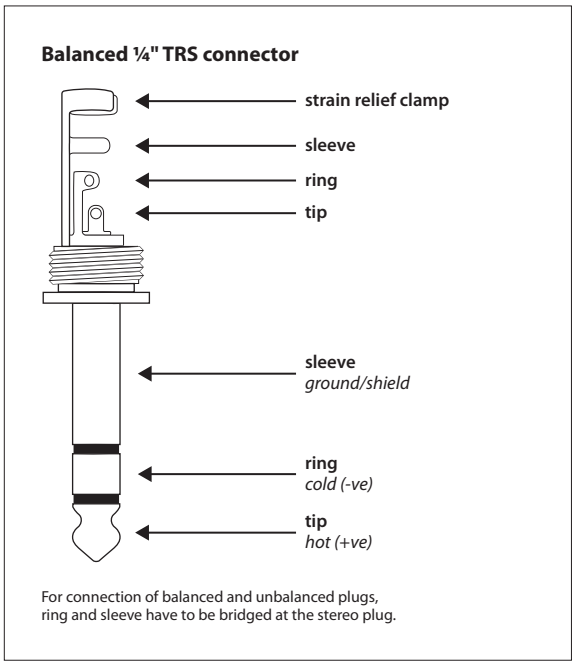

Fig. 5.2: ¼" TRS connector

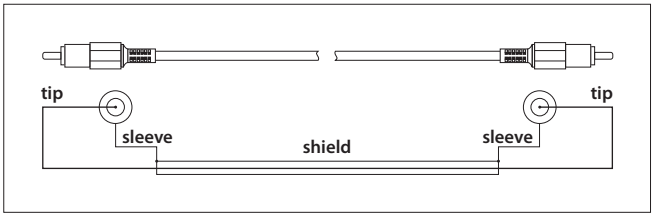

Fig. 5.3: RCA cable

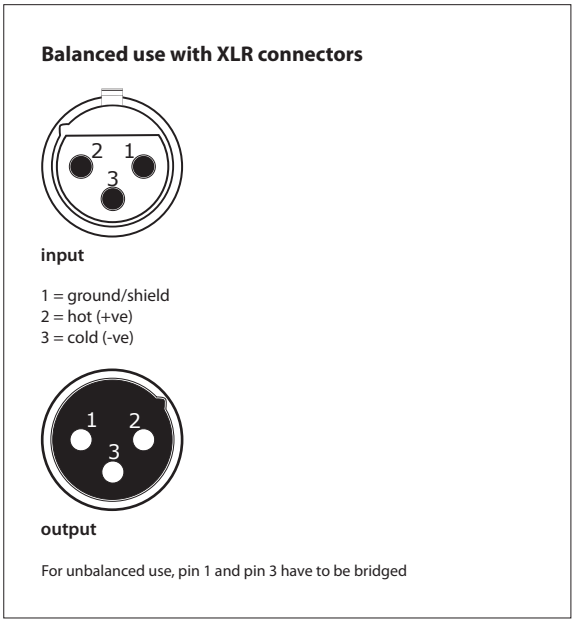

Fig. 5.4: XLR connectors

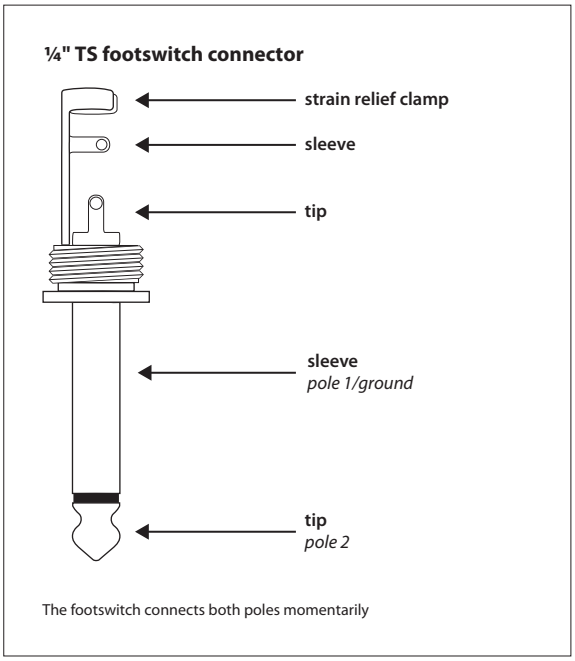

Fig. 5.5: ¼" TRS footswitch connector

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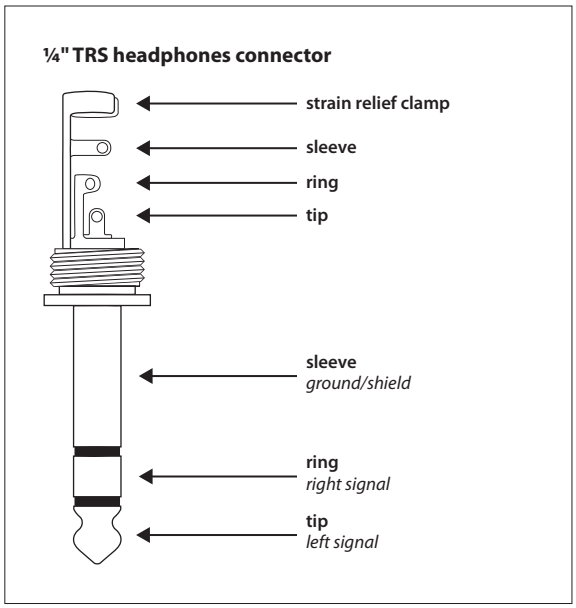

Fig. 5.6: ¼" TRS connector for headphones

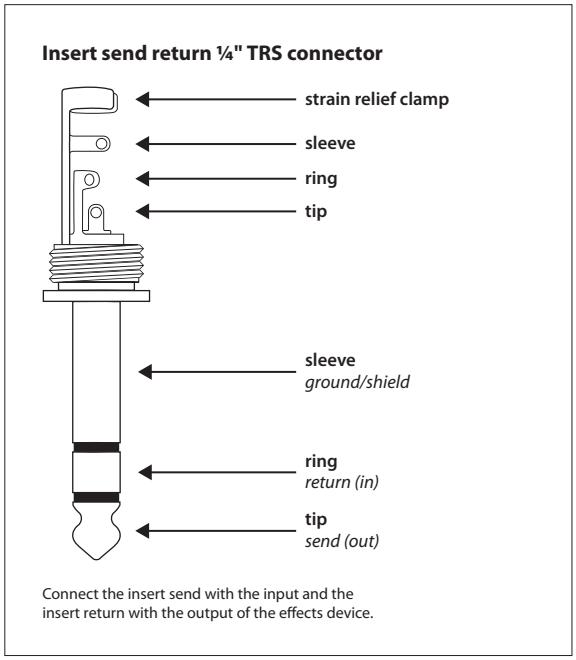

Fig. 5.7: Insert send and return ¼" TRS connector

6. Presets

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Effect	Description	Application examples
PARALLEL EFFECTS		
Cathedral	Very dense and long reverberation of a large cathedral.	Solo instruments/vocals in slow pieces.
Plate	Simulates the sound of early plate reverberators.	A classic for drums (snare) and vocals.
Concert	Simulates a small theater or large concert hall.	Creates an "atmosphere" (e.g. radioplay voices).
Stage	Very dense reverb, especially for live applications.	Dissipates the sound of keyboard pads, for example.
Room	You can clearly hear the walls of the room.	Reverb effect that isn't directly noticeable.
Studio	Adds spaciousness to the sound; signals sound natural, not "flat".	Gives a sound source more "class" in the mix.
Small Hall	Simulates a small, lively (strongly reflecting) hall.	Perfect for processing drums.
Ambience	Reproduces a middle-sized room without late reflections.	Extremely versatile effect.
Early Reflections	Very dense reverb with pronounced early reflections.	Drums, percussion, slap bass
Spring Reverb	Simulates a classic spring reverberation.	Extremely versatile effect.
Gated Reverb	Reverb that is synthetically cut off	Produces a very "crisp" snare sound.
Reverse Reverb	Reverb with reversed envelope, i.e. it slowly gets louder.	Produces a very spaced out vocal sound.
Chorus	Slight detuning of the original signal.	Extremely versatile effect (guitar, vocals, bass, keyboards etc.).
Flanger	A slightly delayed signal is added to the original signal, producing phase shifting of the signals.	Extremely versatile effect (guitar, vocals, bass, keyboards etc.).
Phaser	Another phase-shift effect.	Extremely versatile effect (guitar, vocals, bass, keyboards etc.).
Rotary Speaker	Simulation of a classic effect for electronic organ.	Organ/keyboards.
Delay	Delay of the input signal with several repetitions.	Extremely versatile effect.
Chorus & Reverb	Combination of chorus and reverb.	A classic effect for vocals.
Flanger & Reverb	Flanger combined with a reverb effect.	All-purpose effect.
Phaser & Reverb	Phaser combined with a reverb effect.	All-purpose effect.
Rotary Speaker & Reverb	Rotary Speaker effect combined with reverb.	Organ/keyboards/electric guitar.
Delay & Reverb	Delay combined with reverb.	The most common combination for vocals, solo guitar, etc.
Delay & Chorus	Widens the signals and produces interesting repetition effects.	Makes vocals stand out in the mix. Good intelligibility is preserved.
Delay & Flanger	Similar to Delay & Chorus, but with audible up/downward modulation.	Ideal for creating a slightly spaced out sound.
INSERT EFFECTS		
Compressor	Soft or loud passages are raised or lowered in level respectively.	Single signals, especially from microphones.
Expander	No dynamics limitation (see Compressor), but quite the opposite: interference (noise, hum, etc.) is reduced in level.	Single signals, especially from microphones.
Gate	A gate opens for a specific period of time to make a specific signal pass, and then closes abruptly.	"Controls" feedback-prone microphones/eliminates interference.
Ultramizer	Extremely efficient compression through automatic adaptation of compression parameters.	Gives mix signals a constant output level.
Ultrabass	Combines sub-harmonics processor, bass exciter and limiter.	Gives keyboard sounds some special "class"/sound effect for electric basses.
Panner	The signal "wanders" between the sides of the stereo basis.	Special effect, e.g. for radioplay soundtracking.
Exciter	Adds synthetic harmonics to the signal, resulting in increased presence and "loudness".	Both mix and single signals. Improves intelligibility of vocal signals.
Auto Filter	Level-dependent boost of a specific frequency band, similar to auto-wah effect for electric guitars.	DJ-ing/sound effects for live events/electric guitar or bass.
Tube Distortion	Simulates the tube distortion of classic guitar amplifiers.	Electric guitar/vocals/keyboards.
Guitar Amp	Guitar amp simulation.	Electric guitar or bass.
Vinylizer	Adds the clicks and noise of old vinyl records.	DJ-ing/sound effects for live events.
Test Tone	1-kHz test tone.	Makes P.A. level setting easier.

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7. Specifications

Mono Inputs

Microphone inputs (XENYX Mic preamp)

Type	XLR connector, electronically balanced, discrete input circuit

Mic E.I.N.[1] (20 Hz - 20 kHz)

@ 0 Ω source resistance	-134 dB / 135.7 dB A-weighted
@ 50 Ω source resistance	-131 dB / 133.3 dB A-weighted
@ 150 Ω source resistance	-129 dB / 130.5 dB A-weighted

Frequency Response

<10 Hz - 160 kHz	-1 dB
<10 Hz - 200 kHz	-3 dB
Gain range	+10 dB to +60 dB
Max. input level	+12 dBu @ +10 dB GAIN
Impedance	approx. 2.6 kΩ balanced
Signal-to-noise ratio	110 dB / 112 dB A-weighted (0 dBu In @ +22 dB GAIN)
Distortion (THD + N)	0.005 % / 0.004 % A-weighted

Line Input

Type	¼" TRS jack, electronically balanced
Impedance	approx. 20 kΩ balanced, approx. 10 kΩ unbalanced
Gain range	-10 dB to +40 dB
Max. input level	+22 dBu @ 0 dB GAIN

Fade-out attenuation[2] (Crosstalk attenuation)

Main fader closed	90 dB
Channel muted	84 dB
Channel fader muted	85 dB

Frequency response (Mic In → Main Out)

<10 Hz - 90 kHz	+0 dB / -1 dB
<10 Hz - 160 kHz	+0 dB / -3 dB

Stereo Inputs

Type	2 x ¼" TRS jack, balanced
Impedance	approx. 20 kΩ balanced, approx. 10 kΩ unbalanced
Gain range	-20 dB to +20 dB
Max. input level	+22 dBu @ 0 dB GAIN

CD/Tape In

Type	RCA connector
Impedance	approx. 10 kΩ
Max. input level	+22 dBu

Equalizer

EQ mono channels

LOW	80 Hz / ±15 dB
MID	100 Hz to 8 kHz / ±15 dB
HIGH	12 kHz / ±15 dB
LOW CUT	80 Hz, 18 dB/oct.

EQ stereo channels

LOW	80 Hz / ±15 dB
LOW MID	500 Hz / ±15 dB
HIGH MID	3 kHz / ±15 dB
HIGH	12 kHz / ±15 dB

Channel Inserts

Type	¼" TRS jack, unbalanced
Max. input level	+22 dBu

AUX/FX Send

Type	¼" mono jack, unbalanced
Impedance	approx. 120 Ω
Max. output level	+22 dBu

FX Returns

Type	¼" mono jack, unbalanced
Impedance	approx. 10 kΩ
Max. input level	+22 dBu

Subgroup Outputs

Type	¼" mono jack, unbalanced
Impedance	approx. 120 Ω
Max. output level	+22 dBu

Main Outputs (XLR)

Type	XLR connector, electronically balanced
Impedance	approx. 240 Ω balanced, approx. 120 Ω unbalanced
Max. output level	+28 dBu

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Main Outputs (¼")	
Type	¼" TRS jack, electronically balanced
Impedance	approx. 240 Ω balanced, approx. 120 Ω unbalanced
Max. output level	+28 dBu

Main Inserts	
Type	¼" TRS jack, unbalanced
Max. input level	+22 dBu

Mono Output	
Type	¼" mono jack, unbalanced
Impedance	approx. 120 Ω
Max. output level	+22 dBu
Low pass	variable, 30 Hz to 200 Hz, 18 dB/oct.

Phones/CTRL Room Output	
Type	¼" TRS jack, unbalanced
Max. output level	+19 dBu / 150 Ω (+25 dBm)

CD/Tape Out	
Type	RCA connector
Impedance	approx. 1 kΩ
Max. output level	+22 dBu

DSP	
Type	Texas Instruments
Converter	24-bit delta-sigma, 64/128-times oversampling
Sampling rate	46 kHz

Main Mix System Data[3] (Noise)	
Main mix @ -∞, channel fader @ -∞	-100 dB / -102.5 dB A-weighted
Main mix @ 0 dB, channel fader @ -∞	-82 dB / -85 dB A-weighted
Main mix @ 0 dB, channel fader @ 0 dB	-72 dB / -75 dB A-weighted

Power Supply	
Power consumption	50 W
Fuse (100 - 240 V~, 50/60 Hz)	T 2,0 A H 250 V
Mains connector	Standard IEC receptacle

Physical/Weight	
SX2442FX	
Dimensions (H x W x D)	3.9 x 26.9 x 16.1" 100 x 682 x 410 mm
Weight (net)	19 lbs / 8.6 kg
SX3242FX	
Dimensions (H x W x D)	3.9 x 35.3 x 16.1" 100 x 896 x 410 mm
Weight (net)	24.3 lbs / 11.0 kg

[1] Equivalent Input Noise

[2] Measuring conditions: 1 kHz rel. to 0 dBu; 20 Hz - 20 kHz; line input; main output; unity gain.

[3] 20 Hz - 20 kHz; measured at main output. Channels 1 - 4 unity gain; EQ flat; all channels on main mix; channels 1/3 as far left as possible; channels 2/4 as far right as possible; reference = +6 dBu.

BEHRINGER is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.

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FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION

BEHRINGER

EURODESK SX2442FX/SX3242FX

Responsible party name:	**MUSIC Group Services USA, Inc.**
Address:	**18912 North Creek Parkway, Suite 200 Bothell, WA 98011, USA**
Phone/Fax No.:	**Phone: +1 425 672 0816** **Fax: +1 425 673 7647**

EURODESK SX2442FX/SX3242FX

complies with the FCC rules as mentioned in the following paragraph:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Important information:

Changes or modifications to the equipment not expressly approved by MUSIC Group can void the user's authority to use the equipment.

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